

PUBLICATION LIST
GEORGE T. LIGLER (January 2003)

1. "A Mathematical Approach to Language Design", *Proceedings of the 2nd ACM SIGPLAN/SIGACT Symposium on Principles of Programming Languages*, Palo Alto, January 1975, 41-53.
2. Proof Rules, Mathematical Semantics, and Programming Language Design, Doctoral Thesis, Oxford University, 184 pp., 1975.
3. "Surface Properties of Programming Language Constructs", *Proceedings of the International Symposium on Proving and Improving Programs*, Arc-et-Senans, France, July 1975, IRIA, 299-323.
4. "On the Use of Mathematically Testable Criteria in the Design of Programming Languages for Reliable Software", 1976 ACM Computer Science Conference, Anaheim, February 1976.
5. "The Assignment Axiom and Programming Language Design", *Proceedings of the 1976 ACM National Conference*, ACM, New York, 2-6.
6. "TI Pascal Language Reference Manual" (with G.J. Hansen), Texas Instruments Technical Report, October 1977.
7. "The TI Pascal System: Run-Time Support" (with E.E. Ferguson), *Proceedings of the Eleventh Hawaii International Conference On System Sciences, Volume III: Selected Papers in Mini and Micro Computer Systems*, Honolulu, January 1978, 69-84.
8. "A Software Development Methodology: Issues, Techniques, and Tools" (with R.R. Bate), *Proceedings of the Eleventh Hawaii International Conference on System Sciences*, Honolulu, January 1978, 40-44.
9. "An Approach to Software Testing" (with R.R. Bate), *Proceedings of the Second IEEE International Computer Software and Applications Conference*, Chicago, November 1978, 476-480.
10. "The TI Microprocessor Pascal System" (with L.D. Kroeker, W. Merritt, and L. Spry), *MIDCON 78*, Dallas, December 1978.

11. "Concurrency Constructs for Programming Languages: Issues and Prognosis" (with D.J. Frailey and G.J. Hansen), 1979 Louisiana Microcomputer Conference.
12. "High Order Language Architectures for DoD Tactical Systems", *Proceedings of the 1979 National Aerospace and Electronics Conference, Volume II*, IEEE, New York, 691-694.
13. "Display Technology for Industrial Process Control" (with D.J. Winward), *Professional Program Session Record 19, MIDCON 83*, Chicago, September 1983.
14. "Toward an ATN Framework for Automated Reporting of Meteorological Data by Aircraft" (with A. Snively, D.J. Trombley, and R.D. Londot), *Proceedings of the Third Annual International Aeronautical Telecommunications Symposium on Data Link Integration*, McLean, Virginia, May 1991, 51-54.
15. "The Meteorological Data Collection and Reporting System: Status and Future Directions" (with D.L. Taylor and R.D. Londot), *Proceedings of the Fourth International Conference on Aviation Weather Systems*, Paris, France, June 1991, 144-146.
16. "The Meteorological Data Collection and Reporting System (MDCRS): System Overview and Benefits" (with R. Petersen, C. Dey, R. Martin, and R.D. Londot), *Proceedings of the National Weather Service Aviation Workshop*, Kansas City, December 1991, 251-255.
17. "Development of Minimum Aviation System Performance Standards for DGNSS Instruments Approach Systems (DIAS)" (with K.D. McDonald), *Proceedings of the 49th Annual Meeting of the Institute of Navigation*, Cambridge, Mass., June 21-23, 1993, 119-120.
18. "The RTCA Category II/III DGNSS Instrument Approach System Standards Development" (with K.D. McDonald), *Proceedings of the International Symposium on Precision Approach and Automatic Landing*, Braunschweig, Germany, February 1995, 67-73.
19. "Standards Development for Category II/III Precision Approach and Landing Using Differential GNSS; RTCA Activities and Status" (with K.D. McDonald), *Proceedings of the 51st Annual Meeting of the Institute of Navigation*, Colorado Springs, June 1995, 361-367.
20. "Electronic Data Distribution Service: Rationale and Benefits", *Workshop on Electronic Document Distribution*,

Newport Beach, California, February 27-28, 1996.

NOTES:

1. THE ABOVE DOES NOT INCLUDE TWO PUBLISHED Institute of Navigation (ION) ABSTRACTS AS FOLLOWS:

"A Status Report on the Development of Minimum Aviation System Performance Standards (MASPS) for a GNSS-based Special Category I (SCAT-I) Precision Approach System", (with K.D. McDonald), *Proceedings of the 1993 National Technical Meeting of the Institute of Navigation*, San Francisco, California, January 20-22, 1993, p.425 (Abstract Only).

"The RTCA Special Category I Differential GPS Instrument Approach System Standards and Future Development of DGNSS-aided Category II and III Precision Approach Standards" (with Keith D. McDonald), *Proceedings of the ION GPS-93 Meeting*, Salt Lake City, Utah, September 22-24, 1993, p.851 (Abstract Only).

2. THE ABOVE LIST ALSO DOES NOT INCLUDE A NUMBER OF RTCA AND International Civil Aviation Organization (ICAO) WORKING AND INFORMATION PAPERS, E.G.:

Additionally, Dr. Ligler has drafted numerous working papers for ICAO and RTCA meetings. Exemplary working papers include:

ICAO Aeronautical Mobile Communications Panel (AMCP) Working Group C, October 2002

Requirements and Desirable Features for the Universal Access Transceiver (UAT) System

ICAO AMCP Working Group of the Whole, May 2002

1. Status of Universal Access Transceiver (UAT) MOPS
2. Candidate ADS-B Radio Frequency Links: Findings of the Technical Link Assessment Team (TLAT) and Post TLAT Developments

RTCA Global Navigation Satellite System (GNSS) Task Force (in addition to Task Force editorial committee and terminal area (technical) drafting group assignments)

1. GNSS Accuracy, Availability, and Integrity (Washington, July 9-10, 1992: Technical Working Group Meeting).
3. Communications to Support Applications of GNSS in the Terminal Area (Dallas-Fort Worth, April 27-28, 1992: Terminal Area Subgroup Meeting).

February 1992 London Meeting of the ICAO FANS GNSS Technical Subgroup:

1. Differential GNSS (co-authored)
2. Costs of a Worldwide GNSS Integrity Monitoring Network (co-authored by Aeronautical Radio, Inc. and France)
3. GNSS Definitions (co-authored with U.S., IATA, and French delegations).

December 1991 Montreal Meeting of the ICAO World Area Forecast System Study Group:

Automated Aircraft Meteorological Reports: 1995 projections (co-authored).

1990 ICAO Communications/Meteorology/Operations Division Meeting

{Upper Air Forecast Grid Paper}